

We are given that

$$\left(\text{Radius of Earth's orbit around Sun} \right) = R = 1.5 \times 10^{11} \text{ m}$$

$$\left(\text{Distance moved by Earth in half year} \right) = \pi R = \text{Half Circumference.}$$

We want to calculate average speed and magnitude of average velocity.

$$\text{Average Speed} = N_{av} = \frac{\text{Distance moved}}{\text{Time taken}} = \frac{\pi R}{\frac{1}{2} \text{ year}}$$

$$\text{where } \frac{1}{2} \text{ year} = \frac{1}{2} \times 365 \times 24 \times 60 \times 60 = 1.58 \times 10^7 \text{ s}$$

$$\Rightarrow N_{av} = \frac{\pi \times 1.5 \times 10^{11} \text{ m}}{1.58 \times 10^7 \text{ s}} = 2.98 \times 10^4 \text{ m/s}$$

$$N_{av} = 29.8 \times 10^3 \text{ m/s} = 29.8 \text{ km/s.}$$

Average velocity will be

$$\vec{N}_{av} = \frac{\text{Displacement}}{\text{Time}} = \frac{2R}{\frac{1}{2} \text{ year}}$$

$$= \frac{2 \times 1.5 \times 10^{11} \text{ m}}{1.58 \times 10^7 \text{ s}} = 1.8987 \times 10^4 \text{ m/s}$$

$$= 18.98 \times 10^3 \text{ m/s} \approx 19 \text{ km/s.}$$



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G Thomas



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